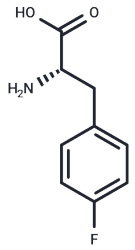
# Data Sheet (Cat.No.T41274)

TargetMol

## p-Fluoro-L-phenylalanine

### Chemical Properties



CAS No. : 1132-68-9

Formula: C9H10FNO2

Molecular Weight: 183.18

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | p-Fluoro-L-phenylalanine is a substrate for tyrosine hydroxylase (TH) that can be used to study the regulation of that enzyme. p-Fluoro-L-phenylalanine binds to the L-leucine specific receptor of Escherichia coli with an KD of 0.26 μM. |
| Targets(IC50) | Hydroxylase |

### Solubility Information

| | |
|---|---|
| Solubility | H2O: 8 mg/mL (43.67 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 5.4591 mL | 27.2956 mL | 54.5911 mL |
| 5 mM | 1.0918 mL | 5.4591 mL | 10.9182 mL |
| 10 mM | 0.5459 mL | 2.7296 mL | 5.4591 mL |
| 50 mM | 0.1092 mL | 0.5459 mL | 1.0918 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Luck LA, et al. Fluorescence and 19F NMR evidence that phenylalanine, 3-L-fluorophenylalanine and 4-L-fluorophenylalanine bind to the L-leucine specific receptor of Escherichia coli. Protein Sci. 2000;9(12):2573-2576.
Hillas PJ, et al. A mechanism for hydroxylation by tyrosine hydroxylase based on partitioning of substituted phenylalanines. Biochemistry. 1996;35(22):6969-6975.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481